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AMENDMENTS TO THE CLAIMS

1. (Previously presented) A compound having the formula (I):

and salts thereof;

wherein R is:

wherein X and X" are independently selected from C=O, C=S, C=NH, C=NR X , S=O or SO₂;

wherein n is 1;

wherein R^X is selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, hydroxyl, alkoxy, carboxy or carboalkoxy;

wherein B is X'RY, H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl or heterocyclyl; and

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wherein R^Y is selected from hydrido, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or hydroxyl;

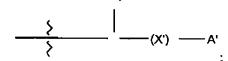
wherein A is H, NH2, NHR $^{\Lambda}$, NR A R B , heteroaryl, cycloalkyl or heterocyclyl;

wherein R^A and R^B are independently selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or carboalkoxy;

provided that when B is H and X is C=O, then A is other than

- (a) a pyridinyl ring substituted with a single NHC(O)R^D substitutent or
- (b) a (C_5-C_6) saturated cycloalkyl ring substituted with a single NHC(O)R^D substitutent, wherein R^D is (C_1-C_{17}) unsubstituted alkyl or (C_2-C_{17}) unsubstituted alkenyl;

wherein R¹ is



wherein X' and X''' are independently selected from C=O, C=S, C=NH, C=NR^{X'}, S=O or SO₂;

wherein m is 0 or 1;

wherein R^{x'} is selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, hydroxyl, alkoxy, carboxy or carboalkoxy;

wherein B' is X"' R^Y , H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl or heterocyclyl;

wherein RY is selected from hydrido, alkyl, alkenyl, alkynyl, aryl,

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heteroaryl, cycloalkyl, heterocyclyl or hydroxyl;

wherein A' is H, NH2, NHRA', NRA'RB', alkyl, alkenyl, alkynyl, alkoxy, aryloxy, aryl, heteroaryl, cycloalkyl or heterocyclyl;

wherein R^{A'} and R^{B'} are independently selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or carboalkoxy;

wherein when m is 0, then A' is additionally selected from the group consisting of:

wherein each of R^{50} - R^{53} is independently selected from C_1 - C_{15} alkyl; alternatively, wherein B' and A' together form a 5-7 membered heterocyclic or heteroaryl ring;

wherein R² is

wherein K and K' together form a C_3 - C_7 cycloalkyl or heterocyclyl ring or a C_5 - C_{10} aryl or heteroaryl ring;

wherein J is selected from the group consisting of hydrido, amino, NHR^J, NR^JR^K, alkyl, alkenyl, alkynyl, alkoxy, aryloxy, aryl, heteroaryl, cycloalkyl, heterocyclyl,

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alkylamino, hydroxyl, thio, alkylthio, alkenylthio, sulfinyl, sulfonyl, azido, cyano, halo,

$$\xrightarrow{}_{\mathsf{NR}^{24}\mathsf{R}^{25}} \quad \text{and} \quad \xrightarrow{}_{\mathsf{OR}^{26}} \quad ; \\$$

wherein each of R²⁴, R²⁵, and R²⁶ is independently selected from the group consisting of alkyl, cycloalkyl, heterocyclyl, aryl and heteroaryl; or R²⁴ and R²⁵ together form a 5-8 membered heterocyclyl ring;

wherein R^I and R^K are independently selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl or heterocyclyl, or

alternatively, wherein J, together with R¹⁷, forms a 5-8 membered heterocyclyl or cycloalkyl ring; or

alternatively, wherein J, together with both R¹⁷ and R¹⁸, forms a 5-8 membered aryl, cycloalkyl, heterocyclyl or heteroaryl ring; and

wherein each of R¹⁷ and R¹⁸ is independently sclected from the group consisting of hydrido, halo, hydroxyl, alkoxy, amino, thio, sulfinyl, sulfonyl and

wherein R^{17} and R^{18} taken together can form a group consisting of ketal, thicketal,

wherein each of R²² and R²³ is independently selected from the group

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consisting of hydrido and alkyl.

2. (Previously presented) A compound having the formula (I):

and salts thereof;

wherein R is:

wherein X and X" are independently selected from C=O, C=S, C=NH, C=NR x , S=O or SO₂;

wherein n is 1;

wherein R^X is selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, hydroxyl, alkoxy, carboxy or carboalkoxy;

wherein B is X"RY, H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl

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or heterocyclyl; and

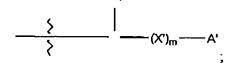
wherein RY is selected from hydrido, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or hydroxyl;

wherein A is aryl;

provided that when B is H and X is C=O, then A is other than a phenyl ring substituted with either:

- (a) -O-((C_8 - C_{15}) unsubstituted alkyl), wherein said phenyl ring may be further optionally substituted with one substituent selected from halo, nitro, (C_1 - C_3) alkyl, hydroxyl, (C_1 - C_3) alkoxy or (C_1 - C_3) alkylthio; or
- (b) $-NHC(O)R^D$, wherein the phenyl ring may be further optionally substituted with 1-2 substituents independently selected from amino, nitro, (C_1-C_3) alkyl, hydroxyl, (C_1-C_3) alkoxy, halo, mercapto, (C_1-C_3) alkylthio, carbamyl or (C_1-C_3) alkylcarbamyl, wherein R^D is (C_1-C_{17}) unsubstituted alkyl or (C_2-C_{17}) unsubstituted alkenyl;

wherein R¹ is



wherein X' and X''' are independently selected from C=O, C=S, C=NH, C=NR $^{\rm X}$, S=O or SO₂;

wherein m is 0 or 1;

wherein R^{X'} is selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, hydroxyl, alkoxy, carboxy or carboalkoxy:

wherein B' is $X^mR^{Y'}$, H, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl or heterocyclyl;

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wherein R^{Y'} is selected from hydrido, alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or hydroxyl;

wherein A' is H, NH₂, NHR^{A'}, NR^{A'}R^{B'}, alkyl, alkenyl, alkynyl, alkoxy, aryloxy, aryl, heteroaryl, cycloalkyl or heterocyclyl;

wherein $R^{A'}$ and $R^{B'}$ are independently selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl, heterocyclyl or carboalkoxy;

wherein when m is 0, then A' is additionally selected from the group consisting of:

wherein each of R⁵⁰-R⁵³ is independently selected from C₁-C₁₅ alkyl; alternatively, wherein B' and A' together form a 5-7 membered heterocyclic or heteroaryl ring;

wherein R2 is

wherein K and K' together form a C_3 - C_7 cycloalkyl or heterocyclyl ring or a C_5 - C_{10} aryl or heteroaryl ring;

wherein J is selected from the group consisting of hydrido, amino, NHR¹,

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NR¹R^K, alkyl, alkenyl, alkoxy, aryloxy, aryl, heteroaryl, cycloalkyl, heterocyclyl, alkylamino, hydroxyl, thio, alkylthio, alkenylthio, sulfinyl, sulfonyl, azido, cyano, halo,

$$\underset{\mathsf{NR}^{24}\mathsf{R}^{25}}{\longrightarrow} \quad \text{and} \quad \underset{\mathsf{OR}^{26}}{\longrightarrow} \quad ;$$

wherein each of R²⁴, R²⁵, and R²⁶ is independently selected from the group consisting of alkyl, cycloalkyl, heterocyclyl, aryl and heteroaryl; or R²⁴ and R²⁵ together form a 5-8 membered heterocyclyl ring;

wherein R¹ and R^K are independently selected from alkyl, alkenyl, alkynyl, aryl, heteroaryl, cycloalkyl or heterocyclyl; or

alternatively, wherein J, together with R¹⁷, forms a 5-8 membered heterocyclyl or cycloalkyl ring; or

alternatively, wherein J, together with both R¹⁷ and R¹⁸, forms a 5-8 membered aryl, cycloalkyl, heterocyclyl or heteroaryl ring; and

wherein each of R^{17} and R^{18} is independently selected from the group consisting of hydrido, halo, hydroxyl, alkoxy, amino, thio, sulfinyl, sulfonyl and

wherein R¹⁷ and R¹⁸ taken together can form a group consisting of ketal, thioketal,

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wherein each of R^{22} and R^{23} is independently selected from the group consisting of hydrido and alkyl.

Claims 3-4 (Canceled)

5. (Previously presented) The compound according to claim 1, wherein R is selected from the group consisting of:

wherein each of R³, R⁴, R⁵, and R⁶ is independently selected from the group consisting of hydrido, alkyl, aryl, heterocyclyl and heteroaryl, and wherein R²⁰⁰ is selected from the group consisting of hydrido, heterocyclyl, and heteroaryl.

6. (Previously presented) The compound according to claim 5, wherein R is selected from

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and wherein R4 is selected from the group consisting of heteroaryl, and heterocyclyl.

7. (Previously presented) The compound according to claim 6, wherein R is

8. (Currently amended) The compound according to either of claims 1 or 2, wherein \mathbb{R}^1 is selected from the group consisting of:

alkyl;

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wherein R⁸ is selected from a natural amino acid side chain or an amino acid side chain that is not naturally occurring;

wherein each of R⁹, R¹⁰ and R¹¹ is selected from the group consisting of hydrido, alkyl, aryl, heterocyclyl and heteroaryl;

wherein R¹² is selected from the group eensisiting consisting of heterocyclyl, heteroaryl, aryl, and alkyl and

wherein R^{13} is selected from $(C_1-C_3$ -alkyl) and aryl.

9. (Currently amended) The compound according to claim 8, wherein R¹ is selected from the group consisting of:

$$\mathbb{R}^{12}$$
, \mathbb{R}^{12}

$$NR^{10}$$
 and NR^{11} NHR^{11}

wherein R^8 is selected from tryptophan side chain and lysine side chain; wherein each of R^{10} and R^{11} is independently selected from hydrido and

wherein R¹² is selected from imidazolyl, N-methylimidazolyl, indolyl, quinolinyl, benzyloxybenzyl, and benzylpiperidenylbenzyl; and

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wherein X^4 is selected from fluoro, and or trifluoromethyl.

10. (Previously presented) The compound according to either of claims 1 or 2, wherein J is selected from the group consisting of hydrido, amino, azido and

wherein R¹⁷ and R¹⁸ taken together form a group selected from ketal,

$$= \begin{cases} = 0 & \text{and} & = \end{cases} = NOR^{22}$$

or wherein R¹⁷ is hydroxyl when R¹⁸ is hydrido; or wherein J, together with R¹⁷, forms a heterocyclyl ring.

11. (Original) The compound according to claim 10, wherein R² is selected from the group consisting of

and

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wherein R¹⁷ and R¹⁸ taken together form a group selected from

$$= \begin{cases} = & \text{And} \qquad = \\ = & \text{NOR}^{22} \end{cases}$$
, wherein R^{22} is selected from the group consisting of H and alkyl; and wherein R^{19} is selected from the group consisting of hydrido, amino,

of H and alkyl; and wherein R19 is selected from the group consisting of hydrido, amino,

12. (Original) The compound according to claim 11, wherein R² is

Claims 13-14 (Canceled)

- 15. (Previously presented) A pharmaceutical composition comprising the compound according to either of claims 1 or 2 and a pharmaceutically acceptable carrier.
- 16. (Currently amended) A method of treating or preventing a bacterial infection in a subject, comprising the step of administering a therapeutically-effective amount of the pharmaceutical composition according to claim 15 to a subject in need thereof for a time and under conditions effective to control or eliminate said bacterial infection.

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- 17. (Currently amended) The method according to claim 16, wherein said subject is selected from the group consisting of a human, an animal, a cell culture of and a plant.
- 18. (Original) The method according to claim 16, wherein said bacterial infection is caused by a gram-positive bacteria.
- 19. (Original) The method according to claim 18, wherein said bacteria is an antibiotic-resistant bacteria.
- 20. (Original) The method according to claim 19, wherein said antibiotic-resistant bacteria are resistant to an antibiotic selected from the group consisting of vancounyein, methicillin, glycopeptide antibiotics, penicillin and daptomycin.
- 21. (Original) The method according to claim 16, further comprising the step of co-administering more than one compound of Formula (I) to a subject in need thereof.
- 22. (Original) The method according to claim 16, further comprising the step of co-administering an antimicrobial agent other than a compound of Formula (I) to a subject in need thereof.
- 23. (Previously presented) The method according to claim 22, wherein said antimicrobial agent is selected from the group consisting of penicillins, carbapenems, cephalosporins, aminoglycosides, bacitracin, gramicidin, mupirocin, chloramphenicol, thiamphenicol, fusidate sodium, lincomycin, clindamycin, macrolides, novobiocin,

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polymyxins, rifamycins, spectinomycin, tetracyclines, vancomycin, teicoplanin, streptogramins, anti-folate agents, trimethoprim, pyrimethamine, synthetic antibacterials, nitroimidazoles, quinolones, fluoroquinolones, isoniazid, ethambutol, pyrazinamide, para-aminosalicylic acid (PAS), cycloserine, capreomycin, ethionamide, prothionamide, thiacetazone, viomycin, everninomicin, glycopeptide, glycylcyclinc, ketolides, oxazolidinones, imipenen, amikacin, netilmicin, fosfomycin, gentamicin, ceftriaxone, Ziracin (56-deacetyl-57-demethyl-45-O-de(2-methyl-1-oxopropyl)-12-O-(2,3,6-trideoxy-3-C-methyl-4-O-methyl-3-nitro-alpha-L-arabino-hexopyranosyl)flambamycin), LY333328 (oritavancin), Linczolid (N-[[(5S)-3-[3-fluoro-4-(4-morpholinyl) phenyl]-2oxo-5-oxazolidinyl]methyl]acetamidc), Synercid (dalfopristin-quinupristin), Aztreonam (2-[[(Z)-[1-(2-amino-4-thiazolyl)-2-[[(2S,3S)-2-methyl-4-oxo-1-sulfo-3-azetidinyl] amino]-2-oxoethylidene]amino]oxy]-2-methyl-propanoic acid), Mctronidazole (2-methyl-5-nitro-1H-imidazole-1-ethanol), Epiroprim (5-[[3,5-diethoxy-4-(1H-pyrrol-1yl)phenyl]mcthyl]-2,4-pyrimidinediamine), OCA-983 (1-[[(2S)-2-amino-3-methyl-1oxobutyl]amino]-2,5-anhydro-3-S-[(4R,5S,6S)-2-carboxy-6-[(1R)-1-hydroxyethyl]-4methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-en-3-yl]-1,4-dideoxy-3-thio-D-threo-pentitol), GV-143253 (trinem), Sanfetrinem ((1S, 5S, 8aS, 8bR)-1, 2, 5, 6, 7, 8, 8a, 8b-octahydro-1-[(1R)-1-hydroxyethyl]-5-methoxy-2-oxo-azeto[2,1-a]isoindole-4-carboxylic acid), CS-834 ((4R, 5S, 6S)-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-3-[[(3R)-5-oxo-3руттоlidinyl]thio]-1-azabicyclo [3.2.0]hept-2-ene-2-carboxylic acid (2,2-dimethyl-1oxopropoxy)methyl cster), Biapenem (6-[[(4R,5S,6S)-2-carboxy-6-[(1R)-1hydroxyethyl]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-en-3-yl]thio]-6, 7-dihydro-5Hpyrazolo[1,2-a][1,2,4]triazol-4-ium inner salt), KA 159 (stipiamide), Dynemicin A ((1S,4R,4aR,14S,14aS,18Z)-1,4,7,12,13, 14-hcxahydro-6,8,11-trihydroxy-3-methoxy-1methyl-7,12-dioxo-4a,14a-epoxy-4,14-[3]hexenc[1,5]diynonaphtho[2,3-c]phenanthridine-

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2-carboxylic acid), DX8739 ((4R,5S,6S)-3-[[(3S,5S)-5-[[4-[(2S)-5-amino-2-hydroxy-1oxopentyl]-1-piperazinyl]carbonyl]-3-pyrrolidinyl]thio]-6-[(1R)-1-hydroxyethyl]-4methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid), DU 6681 ((4R,5S,6S)-3-[[(6S)-6,7-dihydro-5H-pyrrolo[1,2-a]imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-4-imidazol-6-yl]thio]-6-[(1R)-1-hydroxyethyl]-6-[(1Rmethyl-7-oxo-1-azabicyclo[3.2.0] hept-2-cne-2-carboxylic acid), Cefluprenam ((2E)-N-(2-amino-2-oxoethyl)-3-[(6R,7R)-7-[[(2Z)-(5-amino-1,2,4-thiadiazol-3-yl)](fluoro methoxy)imino]acetyl] amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]-N-ethyl-N-methyl-2-propen-1-aminium inner salt), ER 35786 ((4R,5S,6S)-6-[(1R)-1hydroxyethyl]-3-[((3S,5S)-5-[(R)-hydroxy(3R)-3-pyrrolidinylmethyl]-3pyrrolidinyl]thio]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid monohydrochloride), Ccfoselis ((6R,7R)-7-[[(2Z)-(2-amino-4-thiazolyl)(methoxy imino)acetyl]amino]-3-[[2,3-dihydro-2-(2-hydroxyethyl)-3-imino-1H-pyrazol-1yl]methyl]-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid), Sanfetrinem celexetil ((1S,5S,8aS,8bR)-1,2,5,6,7,8,8a,8b-octahydro-1-[(1R)-1-hydroxycthyl]-5methoxy-2-oxo- zeto[2,1-a]isoindole-4-carboxylic acid 1-[(cyclohexyloxy)carbonyl] oxy]ethyl ester), Cefpirome (1-[[(6R,7R)-7-[[(2Z)-(2-amino-4thiazolyl)(methoxyimino)acetyl] amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-en-3-yl]mcthyl]-6,7-dihydro-5H-cyclopenta[b]pyridinium inner salt), HMR-3647 (3de[(2,6-dideoxy-3-C-methyl-3-O-methyl-alpha-L-ribo-hexopyranosyl)oxy]-11,12dideoxy-6-O-methyl-3-oxo-12,11-[oxycarbonyl[[4-[4-(3-pyridinyl)-1H-imidazol-1yl]butyl]imino]]-erythromycin), RU-59863 (C-7 catechol substituted cephalosporin), KP 736 ((6R,7R)-7-[[(2Z)-(2-amino-4-thiazolyl)[[(1,4-dihydro-1,5-dihydroxy-4-oxo-2pyridinyl)methoxy] imino]acetyl]amino]-8-oxo-3-[(1,2,3-thiadiazol-5-ylthio)methyl]-5thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid disodium salt), Rifalazil (1',4didehydro-1-deoxy-1,4-dihydro-3'-hydroxy-5'-[4-(2-methylpropyl)-1-piperazinyl]-1-oxo-

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rifamycin VIII), MEN 10700 ((5R,6S)-3-[[(2-amino-2-oxoethyl)methylamino]methyl]-6-[(1R)-1-hydroxyethyl]-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid), Lenapenem ((4R,5S,6S)-6-[(1R)-1-hydroxyethyl]-3-[[(3S,5S)-5-[(1R)-1-hydroxy-3-(methylamino)propyl]-3-pyrrolidinyl]thio]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2ene-2-carboxylic acid), BO 2502A ((4R,5S,6S)-3-[(2S,3'S,4S)-[2,3'-bipyrrolidin]-4ylthio]-6-[(1R)-1-hydroxyethyl]-4-methyl-7-oxo-1-azabicyclo[3.2.0]hept-2-ene-2carboxylic acid), NE-1530 (3'-sialyllacto-N-neotetraose), PR 39 (L-arginyl-L-arginyl-Larginyl-L-prolyl-L-arginyl-L-prolyl-L-prolyl-L-tyrosyl-L-leucyl-L-prolyl-L-arginyl-Lprolyl-L-arginyl-L-prolyl-L-prolyl-L-phenylalanyl-L-phenylalanyl-L-prolyl-Lprolyl-L-arginyl-L-leucyl-L-prolyl-L-prolyl-L-arginyl-L-isoleucyl-L-prolyl-Lprolylglycyl-L-phenylalanyl-L-prolyl-L-prolyl-L-arginyl-L-phenylalanyl-L-prolyl-L-aminophenyl)sulfonyl]phenyl]amino]propoxy]-3,5-dimethoxyphcnyl] methyl]-2,4pyrimidinediamine), PD 138312 ((R)-7-[3-(1-amino-1-methylethyl)-1-pyrrolidinyl]-1cyclopropyl-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid), PD 140248 (7-[(3R)-3-[(1S)-1-aminoethyl]-1-pyrrolidinyl]-1-(2,4-difluorophenyl)-6-fluoro-1,4-dihydro-4-oxo-1,8-naphthyridine-3-carboxylic acid), CP 111905 (5-deoxy-5-[[(2E)-3-[3-hydroxy-4-(2-propenyloxy)phenyl]-2-methyl-1-oxo-2-propenyl]amino]-1,2-Omethylene-D-neo-inositol), Sulopenem ((5R,6S)-6-[(1R)-I-hydroxyethyl]-7-oxo-3-[[(1R,3S)-tetrahydro-1-oxido-3-thienyl]thio]-4-thia-1-azabicyclo[3.2.0]hept-2-cne-2carboxylic acid),_ritipenam acoxyl ((5R,6R)-3-[[(aminocarbonyl)oxy]methyl]-6-[(1R)-1hydroxyethyl]-7-oxo-4-thia-1-azabicyclo[3.2.0]hept-2-ene-2-carboxylic acid (acetyloxy)methyl ester), RO-65-5788 ((6R,7R)-7-[[(2Z)-(5-amino-1,2,4-thiadiazol-3yl)(hydroxyimino)acetyl]amino]-3-[(E)-[(3'R)-1'-[[(5-methyl-2-oxo-1,3-dioxol-4yl)methoxy]carbonyl]-2-oxo[1,3'-bipyrrolidin]-3-ylidcne]methyl]-8-oxo-5-thia-1-

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azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid monosodium salt), Sch-40832 (N-[[48-[1-[[2,6-dideoxy-3-O-(2,6-dideoxy-D-arabino-hexopyranosyl)-D-arabinohexopyranosyl]oxy]ethyl]-15-ethylidene-1,3a,4,5,10,11,12,13,14,15,19,20,21,22,28, 29,41,42-octadecahydro-41-hydroxy-12,45-bis(1-hydroxyethyl)-1-(hydroxymethyl)-22-(1-hydroxy-1-methylpropyl)-36-methyl-51,54,57-tris(methylene)-3-(methylthio)-10,13,20,27,38,49,52,55,58-nonaoxo-18H,27H-5a,29-(iminocthaniminoethanimino ethaniminoethanimino[7,2]quinolinomethanoxy methano)-9,6:19,16:26,23:33,30tetranitrilo-16H,33aH-imidazo[1',5':1,6]pyrido [3,2-m][1,11,17,24,4,7,20, 27]tetrathiatetraazacyclotriacontin-1-yl]carbonyl]-2,3-didehydroalanyl-2,3-didchydroalanine methyl ester stereoisomer), micacocidin A ((OC-6-26-A)-[(4S)-2-[(2S)-2-[(2R,4R)-2-[(4R)-4,5-dihydro-2-[2-(hydroxy-.kappa.O)-6-pentylphenyl]-4-thiazolyl-.kappa.N3]-3-methyl-4-thiazolidinyl-.kappa.N3]-2-(hydroxy-.kappa.O)-1,1dimethylethyl]-4,5-dihydro-4-methyl-4-thiazolecarboxylato(2-)-.kappa.N3, .kappa.O4]-Zinc), SR-15402 ((1S,5S,8aS,8bR)-1,2,5,6,7,8,8a,8b-octahydro-1-[(1R)-1-hydroxyethyl]-2-oxo-5-[(3S)-3-pyrrolidinylthio]-azeto[2,1-a]isoindole-4-carboxylic acid), SUN A0026, TOC 39 (1-(2-amino-2-oxoethyl)-4-[[(1E)-2-[(6R,7R)-7-[[(2Z)-(2-amino-4-thiazolyl) (hydroxyimino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-cn-3yl]ethenyl]thio]-pyridinium inner salt), carumonam ([[(Z)-[2-[[(2S,3S)-2-[[(aminocarbonyl)oxy]methyl]-4-oxo-1-sulfo-3-azetidinyl]amino]-1-(2-amino-4thiazolyl)-2-oxoethylidene]amino]oxy]-acetic acid), Cefozopran (1-[[(6R,7R)-7-[[(2Z)-(5-amino-1,2,4-thiadiazol-3-yl)(methoxy imino)acetyl]amino]-2-carboxy-8-oxo-5-thia-1azabicyclo[4.2.0]oct-2-en-3-yl]methyl]-imidazo[1,2-b]pyridazinium inner salt), Cefetamet pivoxil ((6R,7R)-7-[[(2Z)-(2-amino-4-thiazolyl)(mcthoxy imino)acetyl]amino]-3-methyl-8-oxo-5-thia-1-azabicyclo[4.2.0]oct-2-ene-2-carboxylic acid (2,2-dimethyl-1-oxopropoxy)methyl ester), and T 3811 (des-F(6)-quinolone).

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- 24. (Currently amended) The method according to claim 22, wherein said antimicrobial agent is selected from the group consisting of imipenen, amikacin, netilmicin, fosfomycin, gentamicin, ceftriaxone, teicoplanin, Ziracin (56-deacctyl-57-demethyl-45-O-de(2-methyl-1-oxopropyl)-12-O-(2,3,6-trideoxy-3-C-methyl-4-O-methyl-3-nitro-alpha-L-arabino-hexopyranosyl)flambamycin), LY333328 (oritavancin), CL 331002, HMR3647 HMR-3647 (3-def(2,6-dideoxy-3-C-methyl-3-O-methyl-alpha-L-ribo-hexopyranosyl)oxyl-11,12-dideoxy-6-O-methyl-3-oxo-12,11-[oxycarbonyl][4-[4-(3-pyridinyl)-1H-imidazol-1-yl]butyl]imino]]-crythromycin), Linezolid (N-[[(5S)-3-[3-fluoro-4-(4-morpholinyl) phenyl]-2-oxo-5-oxazolidinyl]methyl]acetamide), Synercid (dalfopristin-quinupristin), Aztreonam (2-[[(Z)-[1-(2-amino-4-thiazolyl)-2-[[(2S,3S)-2-methyl-4-oxo-1-sulfo-3-azetidinyl] amino]-2-oxocthylidene]amino]oxyl-2-methyl-propanoic acid), and Metronidazole (2-methyl-5-nitro-1H-imidazole-1-ethanol).
- 25. (Currently amended) The method according to claim 17, wherein said subject is selected from the group consisting of a human of and an animal.
- 26. (Original) The method according to claim 25, wherein said subject is a human.
 - 27. (Previously presented) The compound of claim 1 having the formula (II):

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wherein R^{56} is an optionally substituted straight-chain $C_8\text{-}C_{14}$ alkyl group.

Claims 28-29 (Canceled)

30. (Currently amended) A method of using the compound according to claim 27 to make a compound according to either of claims 1 or 2 of the formula:

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31. (Previously presented) The compound according to either of claims 1 or 2 wherein said compound is selected from

Cpd #	R	R ¹	R²
1	NHCONH(CH ₂) ₇ CH ₃	NH ₂	O NH2
2	NHCONH(CH ₂) ₁₁ CH ₃	NH ₂	O NH ₂
3	NHCONH(CH ₂) ₁₀ CH ₃	HZ HZ	O NH ₂

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		·	
5		HN NH ₂ NH	O NH2
17	NHCONH(CH ₂) ₁₁ CH ₃	HN NH ₂ NH	O NH ₂
48	NHCONH(CH ₂) ₁₀ CH ₃	NH₂	O NH ₂
56	NHCONH(CH2)7CH3	NHBoc NHBoc	NH ₂
57	NHCONH(CH ₂) ₁₀ CH ₃	HN NHBoc	O NH2
58	NHCONH(CH ₂) ₁₁ CH ₃	HN NHBoc NHBoc	O NH2
62	NHCONH(CH ₂) ₇ CH ₃	HN NH ₂	O NH ₂
63	NHCONH(CH ₂) ₁₀ CH ₃	HN NH ₂	O NH ₂
64	NHCONH(CH ₂) ₁₁ CH ₃	HN NH ₂	O NH ₂
69	NHCONH(CH ₂) ₇ CH ₃	HN NH2	NH ₂
70	NHCONH(CH₂)7CH3	HN FINA	NH ₂
71	NHCONH(CH₂)7CH₃	H NH ₂	O NH2
75	NHCONH(CH ₂) ₁₀ CH ₃	NBoc HN NHBoc	O NH ₂

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76	NHCONH(CH ₂) ₇ CH ₃	HN OCH3	O NH ₂
77	NHCONH(CH₂)₁CH₃	HIN N	O NH2
78	NHCONH(CH ₂) ₇ CH ₃	HM NO2	O NH2
87	NHCONH(CH ₂) ₁₁ CH ₃	HN OCH,	O NH ₂
88	NHCONH(CH ₂) ₁₁ CH ₃	HN NO2	O NH ₂
89	NHCONH(CH ₂) ₁₁ CH ₃	HM N	O NH2
108	NHCONH(CH ₂) ₁₀ CH ₃	HN NH ₂	O NH ₂
113	NHCONH(CH ₂) ₁₀ CH ₃		O NH ₂
114	NHCONH(CH ₂) ₁₀ CH ₃	HN N OCH,	O NH2
117	NHCONH(CH ₂) ₈ CH ₃	NHBoc	NH ₂
118	NHCONH(CH ₂) ₈ CH ₃	NH ₂	O NH ²
119	NHCONH(CH ₂) ₉ CH ₃	NHBoc	O NH2
120	NHCONH(CH ₂) ₉ CH ₃	NH ₂	O NH ₂

32. (Previously presented) The compound according to claim 31 wherein said

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compound is selected from

Cpd #	R	R ¹	R ²
2	NHCONH(CH ₂) ₁₁ CH ₃	NH ₂	O NH ₂
3	NHCONH(CH ₂) ₁₀ CH ₃	HN NH ₂ NH	O NHW
48	NHCONH(CH ₂) ₁₀ CH ₃	NH ₂	O NH ₂
89	NHCONH(CH ₂) ₁₁ CH ₃	##	O NH2
118	NHCONH(CH ₂) ₈ CH ₃	NH ₂	O NH ₂
120	NHCONH(CH ₂) ₉ CH ₃	NH ₂	O NH2

33. (Previously presented) The compound according claim 2, wherein R is selected from the group consisting of:

wherein each of R^3 and R^5 is independently selected from the group consisting of hydrido, alkyl, aryl, heterocyclyl and heteroaryl, and wherein R^{200} is aryl.

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34. (Currently amended) The compound according to claim 33, wherein R is

and wherein R4' is selected from the group consisting of a substituted phenyl.

35. (Previously presented) The compound according to claim 34, wherein R is

and wherein X^3 is chloro or trifluoromethyl.

36. (Currently amended) The method according to claim 23, wherein anti-folate agents are sulfonamides or synthetic antibacterials are selected from the group consisting of nitrofurans, methenamine mandelate and methenamine hippurate.